

P/033/60/012/002/003/008  
D214/D301

AUTHOR: Sokolovskiy, V.V. (Moscow)

TITLE: Axial plastic flow between non-circular cylinders

PERIODICAL: Archiwum mechaniki stoswanej, v. 12, no. 2, 1960,  
173 - 183

TEXT: In this paper a method is given for reducing the solution of different problems with a non-linear law to that of the same problem with a linear law. A flow is considered between rough cylinders with the outer cylinder stationary, and the inner one with a velocity  $W$  in the negative direction of the  $z$ -axis. The velocity components  $u = v = 0$ , the strain rate components and the stress components are:

$$\epsilon_x = \epsilon_y = \epsilon_z = \gamma_{xy} = 0, \quad \sigma_x = \sigma_y = \sigma_z = \sigma_0, \quad \tau_{xy} = 0.$$

The velocity component  $w$ , as well as the strain rate components

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Axial plastic flow ...

$\gamma_{zx} = \gamma_x, \gamma_{yz} = \gamma_y$  and the stress components  $\tau_{zx} = \tau_x, \tau_{yz} = \tau_y$  are independent of  $z$ ; thus, they are functions of  $x$  and  $y$  only. The strain rate components  $\gamma_x$  and  $\gamma_y$  are expressed by the velocity component  $w$  as follows

$$2\gamma_x = \frac{\partial w}{\partial x}, \quad 2\gamma_y = \frac{\partial w}{\partial y}. \quad (1.1)$$

The basic relations between the strain rate components and the stress components have the usual form. The strain rate components  $\gamma_x$  and  $\gamma_y$  can be expressed by the function  $\varphi$  as follows:

$$2k\gamma_x = \frac{\partial \varphi}{\partial x}, \quad 2k\gamma_y = \frac{\partial \varphi}{\partial y}, \quad \varphi = k(w + W) \quad (1.5)$$

while the stress components  $\tau_x$  and  $\tau_y$  - by the function  $\psi$  as

$$\tau_x = \frac{\partial \psi}{\partial y}, \quad \tau_y = -\frac{\partial \psi}{\partial x}, \quad (1.6)$$

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where  $k$  is a mechanical constant to be introduced below. The basic relations together with Eq. (1.5) and Eq. (1.6) yield the following system of equations

$$\frac{\partial \varphi}{\partial x} = 2k \frac{\gamma}{\tau} \tau_x, \quad \frac{\partial \varphi}{\partial y} = 2k \frac{\gamma}{\tau} \tau_y, \quad \frac{\partial \varphi}{\partial x} = -\tau_y, \quad \frac{\partial \varphi}{\partial y} = \tau_x. \quad (1.7)$$

This system takes the simplest form when  $\gamma$  and  $\tau$  are connected by linear relation

$$\tau = 2 k \gamma \quad (1.9)$$

which contains one mechanical constant  $k$ . The system of Eq. (1.7) can be reduced to a rather convenient form when  $\gamma$  and  $\tau$  are connected by non-linear relation

$$\tau = \frac{2 k \gamma}{\sqrt{1 + (2 m \gamma)^2}} \quad (1.10)$$

which contains two mechanical constants  $k$  and  $m$ . The equations are then transformed by means of

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$$\tau_x = \tau \cos \theta, \quad \tau_y = \tau \sin \theta.$$

and a new quantity  $t$  by

$$\gamma = \frac{t}{1 - m^2 t^2}, \quad \tau = \frac{t}{1 + m^2 t^2}$$

into

$$\begin{cases} \frac{\partial x}{\partial \varphi} = \frac{1 - m^2 t^2}{t} \cos \theta, & \frac{\partial y}{\partial \varphi} = \frac{1 - m^2 t^2}{t} \sin \theta, \\ -\frac{\partial x}{\partial \psi} = \frac{1 + m^2 t^2}{t} \sin \theta, & \frac{\partial y}{\partial \psi} = \frac{1 + m^2 t^2}{t} \cos \theta, \end{cases} \quad (2.5)$$

and the determinant of the transformation  $\Delta$  is

$$\Delta = \frac{\partial x}{\partial \varphi} \frac{\partial y}{\partial \psi} - \frac{\partial x}{\partial \psi} \frac{\partial y}{\partial \varphi} = \frac{1}{t^2} - m^4 t^2. \quad (2.6)$$

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Since the complex quantities subsequently introduced  $T/\bar{\omega}$  are conjugate and the quantity  $mt$  is real and varies within the range  $0 \leq mt \leq 1$ , it is readily observed that  $T/\bar{\omega} = 0$ . Consequently the complex quantity  $T$  is an arbitrary analytic function of the complex variable  $\omega$  only; thus:

$$te^{-i\theta} = T, \quad T = T(\omega). \quad (2.8)$$

for  $m = 0$ , the equations

$$dz = \frac{d\omega}{T} - m^2 \bar{T} d\bar{\omega} \quad (2.7)$$

take the form

$$dz = \frac{d\omega}{T}$$

and the equations (2.8) will be

$$te^{-i\theta} = T, \quad T = T(\omega).$$

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The above equations make it possible to find the solution of the above stated problem on the axial flow between rough cylinders, if one knows the solution of the same problem  $m = 0$ . A case is then considered where the inner and outer cross-section contours of the cylinders are confocal ellipses and a numerical example is worked out. There are 2 figures.

ASSOCIATION: Institute of Mechanics. Academy of Sciences, USSR

SUBMITTED: January 18, 1960

Card 6/6

S/040/60/024/005/025/028  
C111/C222

AUTHOR: Sokolovskiy, V.V. (Moscow)

TITLE: The Drawing of a Thin Tube by a Conic Die

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol.24, No.5,  
pp.959-961

TEXT: At first the author considers the drawing of a thin tube by a conic die under consideration of the usual plasticity condition. Figure 1 shows the initial situation, figure 2 shows an arbitrary situation.

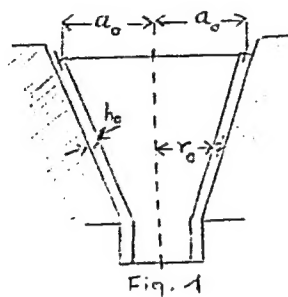


Fig. 1

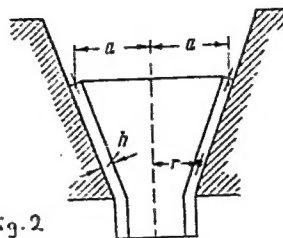


Fig. 2

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The Drawing of a Thin Tube by a Conic Die

For the tension components  $\sigma_1$  and  $\sigma_2$  in meridional and circular direction, the thickness of the tube  $h$  and the radial velocity  $v$  the author establishes a hyperbolic system of four differential equations: Equilibrium condition:

$$(1) \quad \frac{\partial(h\sigma_1)}{\partial r} + \frac{h(\sigma_1 - \sigma_2)}{r} = 0.$$

Plasticity condition:

$$(2) \quad \phi^2 = \sigma_1^2 - \sigma_1\sigma_2 + \sigma_2^2 = \sigma_s^2.$$

Connection between tensions and velocity of deformation:

$$(3) \quad \frac{\partial v}{\partial r} = \frac{2\sigma_1 - \sigma_2}{2\sigma_2 - \sigma_1} \frac{v}{r}.$$

Incompressibility condition:

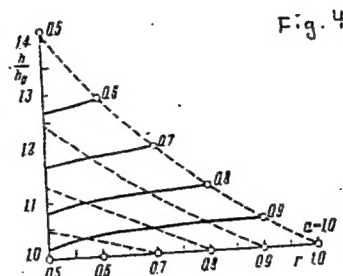
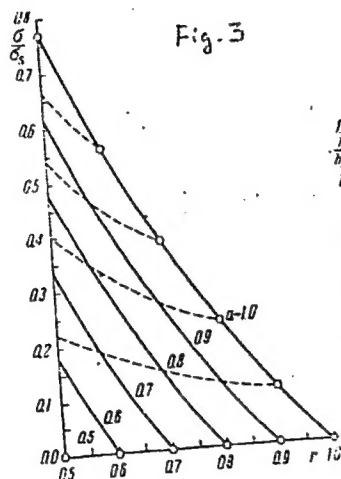
$$(4) \quad \frac{1}{h} \left( \frac{\partial h}{\partial a} + v \frac{\partial h}{\partial r} \right) + \frac{\partial v}{\partial r} + \frac{v}{r} = 0.$$

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The Drawing of a Thin Tube by a Conic Die  
The results of the solution according to the difference method show



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The Drawing of a Thin Tube by a Conic Die

Here  $\sigma = \sigma_1$ , the unbroken curves relate to the dependence of  $a$ , the dashed curves relate to the dependence of  $r_0$  ( $r_0=0.5; 0.6; \dots; 1$ ); it holds  $a_0 = 1$  and for  $v$ ,  $a$  is used as a time-scale.

Then the same problem is investigated according to Prager with a linearized plasticity condition and corresponding dependences between the tension components and components of deformation velocity. Here (1) remains, but instead of (2)-(4) it holds

$$(10) \quad \Phi = \mu \sigma_1 - \sigma_2 = \sigma_s \quad (1/2 \leq \mu \leq 1),$$

$$(11) \quad \frac{\partial v}{\partial r} + \mu \frac{v}{r} = 0,$$

$$(12) \quad \frac{1}{h} \left( \frac{\partial h}{\partial a} + v \frac{\partial h}{\partial r} \right) + (1 - \mu) \frac{v}{r} = 0.$$

The results of an integration for  $\mu = \frac{1}{2}$  show

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The Drawing of a Thin Tube by a Conic Die

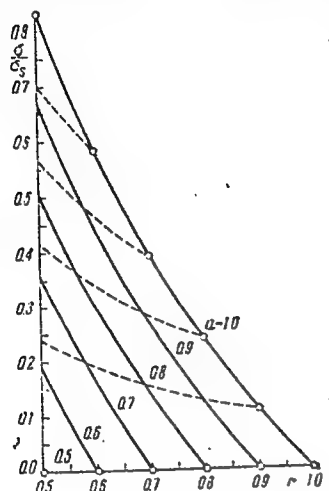


Fig. 5

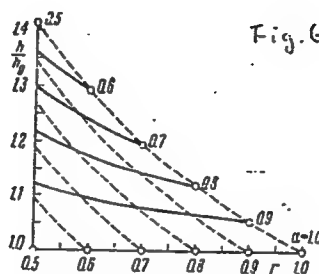


Fig. 6

There are 6 figures and 2 references, all non-Soviet.

SUBMITTED: June 2, 1960

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S/030/60/000/008/008/013  
B021/B054

AUTHORS: Sokolovskiy, V. V., Corresponding Member of the AS USSR,  
Lenskiy, V. S., Candidate of Physical and Mathematical  
Sciences

TITLE: Symposium on Plasticity ✓

PERIODICAL: Vestnik Akademii nauk SSSR, 1960,<sup>30</sup> No. 8, pp. 104-105

TEXT: The authors report on the Symposium held at Brown University (USA) on April 5-7, 1960. The following reports were delivered by Soviet delegates: Yu. N. Rabotnov dealt with problems of creeping, V. V. Sokolovskiy with the plastic flow between noncircular cylinders, and V. S. Lenskiy with the experimental foundation of the theory of composite load.

Card 1/1

LAVRENT'YEV, M.A., otv.red.; MIKHAYLOV, G.K., red.; BITSADZE, A.V.,  
red.; VEKUA, I.N., red.; DZHANGELIDZE, G.Yu., red.; LUR'YE, A.I.,  
red.; MANDZHAVIDZE, G.F., red.; MIKHAYLOV, G.K., red.; SEDOV, L.I.,  
red.; SOBOLEV, S.L., red.; SOKOLOVSKIY, V.V., red.; KHRISTIANOVICH,  
S.A., red.; SHERMAN, D.I., red.; RYVKIN, A.Z., red.izd-va;  
VOLKOVA, V.V., tekhn.red.

[Problems in the mechanics of solids] Problemy mekhaniki sploshnoi  
sredy; k semidesiatiletiiu akademika N.I.Muskhelishvili. Moskva,  
1961. 577 p. (MIRA 14:3)

1. Akademiya nauk SSSR.  
(Mechanics, Analytic) (Elastic solids)

SOKOLOVSKIY, V.V. (Moskva)

Plotting the fields of stresses and speeds in problems of a plastic  
flow. Inzh.zhur. 1 no.3:116-121 '61. (MIRA 15:2)

1. Institut mekhaniki AN SSSR.  
(Plasticity)

· SOKOLOVSKIY, V.V. (Moskva)

Drag of a plastic strip. Prikl. mat. i mekh. 25 no.2:336-341 Mr-  
Ap '61. (MIRA 14:5)

1. Institut mekhaniki Akademii nauk SSSR.  
(Plasticity) (Drag (Aerodynamics))

SOVKLOVSKIY, V.V. (Moskva)

Widening a circular aperture in a rigidly plastic plate. Prikl.  
mat. i mekh. 25 no.3:548-552 My-Je '61. (MIRA 14:7)

1. Institut mekhaniki AN SSSR.  
(Deformations (Mechanics)) (Plasticity)



SKOLOVSKIY, V.V. (Moskva)

Some remarks on the linearization of plasticity equations.  
Prikl. mat. i mekh. 25 no.5:931-932 S-C '61. (MIRA 14:10)

1. Institut mekhaniki Akademii nauk SSSR.  
(Elasticity)  
(Differential equations)

SOKOLOVSKIY, V.V. (Moskva)

Ultimate equilibrium of a loose medium at small angles of internal  
friction. Inzh.sbor. 31:119-122 '61. (MIRA 14:6)

1. Institut mekhaniki AN SSSR.  
(Soil mechanics)

SEDOV, L.I., otv. red.; SOKOLOVSKIY, V.V., red.; DZHANELIDZE, G.Yu.,  
red.; KALININ, S.V., red.; LOYTSYANSKIY, L.G., red.; LUR'YE,  
A.I., red.; MIKHAYLOV, V.V., red.; PETROV, G.I., red.;  
RUMYANTSEV, V.V., red.; SHAPIRO, G.S., red.; CHAKHIREV, A.G.,  
red. izd-va; ZAMARAYEVA, R.A., tekhn. red.

[Proceedings of the All-Union Congress on theoretical and Ap-  
plied Mechanics, January 27- February 3, 1960] Trudy Vsesoyuz-  
nogo s"ezda po teoreticheskoi i prikladnoi mekhanike. 1st, .  
Moscow, 1960; obzornye doklady. Moskva, Izd-vo Akad. nauk  
SSSR, 1962. 467 p. (MIRA 15:9)

1. Vsesoyuznyy s"ezd po teoreticheskoy i prikladnoy mekhanike.  
1st. Moscow, 1960.

(Mechanics Congresses)

SOKOLOVSKIY, V.V. (Moskva)

Stress and velocity fields during the drawing of a plastic strip.  
Inzh.zhur. 2 no.2:288-304 '62. (MIRA 15:6)

1. Institut mekhaniki AN SSSR.  
(Drawing (Metalwork))

10.7000

S/258/62/002/002/010/018  
I028/I228

AUTHOR: Sokolovskiy, V. V. (Moscow)

TITLE: Concentration of tangential stresses at a non-linear deformation law

PERIODICAL: Inzhenernyy zhurnal, v. 2, no. 2, 1962, 332-337

TEXT: Basic equations of the two-dimensional shift are determined (11), (12), and a method for solving them in the case of a non-linear law of deformation indicated:

$$dz = d\zeta - n^2 \left( \frac{d\bar{\omega}}{d\bar{\zeta}} \right) d\bar{\zeta} \quad (11)$$

$$te^{-i\theta} = \frac{d\omega}{d\zeta} \quad (12)$$

( $z, \omega, \zeta$ )—complex variables). This method is illustrated by the example of a half-plane weakened by an elliptical cut. The system of equations (11), (12) is solved for a linear law of deformation, and the following solution obtained

$$\omega = \frac{i\tau_{\infty}}{a-b} (bz - a\sqrt{z^2 - c^2}), \quad c^2 = a^2 - b^2.$$

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S/258/62/002/002/010/018

I028/1228

where  $a, b$  are the semi-axes of the ellipse. The solution of the non-linear case is then written in the form:

$$\omega = \frac{it_{\infty}}{\alpha - \beta} (\beta \zeta - \alpha \sqrt{\zeta^2 - \gamma^2}), \quad \gamma^2 = \alpha^2 - \beta^2$$

and the parameters  $\alpha$  and  $\beta$  are determined as functions of  $a$  and  $b$  by introducing this solution in (11)–(12). As a numerical example the pattern of variation of the tangential stress along the  $x$  and  $y$  axes is determined. There are 2 figures. ✓

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics AS USSR)

SUBMITTED: February 27, 1962

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S/258/63/003/001/018/022  
E201/E141

AUTHOR: Sokolovskiy, V.V. (Moscow)

TITLE: Stress and velocity fields during the penetration of a punch into a plastic substance

PERIODICAL: Inzhenernyy zhurnal, v.3, no.1, 1963, 160-164

TEXT: A punch with curved face is forced into a plastic substance which is contained in a vessel with smooth walls. The solution is based on earlier work of the author and on R. Hill's book "Mathematical Theory of Plasticity", (Russian translation, 1956). Two sets of coordinates are used. The equations for coordinates  $x, y$ , and velocities  $u, v$  are:

$$\frac{\partial Y}{\partial \xi} = -\frac{X}{2}, \quad \frac{\partial X}{\partial \eta} = \frac{Y}{2} \quad (3)$$

$$\frac{\partial U}{\partial \xi} = \frac{V}{2}, \quad \frac{\partial V}{\partial \eta} = -\frac{U}{2} \quad (4)$$

where:  $X = x \cos \theta - y \sin \theta; \quad Y = y \cos \theta - x \sin \theta;$   
 $U = u \cos \theta - v \sin \theta; \quad V = v \cos \theta - u \sin \theta.$

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Stress and velocity fields during ... S/258/63/003/001/018/022  
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The transformation of the  $x, y$  coordinates and the  $u, v$  velocities into  $\xi$  and  $\eta$  is governed by:

$$\frac{\partial(x,y)}{\partial(\xi,\eta)} = -\frac{2}{\sin 2\theta} \frac{\partial x}{\partial \xi} \frac{\partial x}{\partial \eta}, \quad \frac{\partial(u,v)}{\partial(\xi,\eta)} = \frac{2}{\sin 2\theta} \frac{\partial u}{\partial \xi} \frac{\partial u}{\partial \eta}$$

The components of stress and velocity along the characteristic curve at the angle  $\theta$  to  $x$  are given by:

$$\sigma_n = \sigma_t = \sigma, \quad \tau = k, \quad v_n = V, \quad v_t = U$$

and along the  $\eta$  characteristic curve the components are:

$$\sigma_n = \sigma_t = \sigma, \quad \tau = -k, \quad v_n = -U, \quad v_t = V.$$

On this basis equations are obtained for stress and velocity at any point in the substance. Results of a numerical example are given, approximate values of the integrals required for the evaluation being obtained by the method of finite differences. There are 4 figures.

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Stress and velocity fields during ... S/258/63/003/001/018/022  
E201/E141

ASSOCIATION: Institut mekhaniki Akademii nauk SSSR  
(Institute of Mechanics, AS USSR)

SUBMITTED: April 4, 1962

Card 3/3

SOKOLOVSKIY, V.V. (Moskva)

Limit equilibrium of a loose medium with variable weight.  
Inzh. zhur. 3 no.2:288-299 '63. (MIRA 16:6)

1. Institut mekhaniki AN SSSR.  
(Soil mechanics)

L 17153-63

ACCESSION NR: AP3006360

ENP(r)/ENT(m)/BDS

AFFTC

S/0258/63/003/003/0563/0568

AUTHOR: Sokolovskiy, V. V. (Moscow)

TITLE: Plastic flexure of a circular plate *26*

SOURCE: Inzhenernyy zhurnal, v. 3, no. 3, 1963, 563-568

TOPIC TAGS: circular plate, plastic flexure, plastic bending, uniformly loaded circular plate, concentrically loaded circular plate, stress distribution, strain distribution

ABSTRACT: The flexure beyond the elastic range of a circular plate simply supported on the edge is discussed. The method of determining the state of stress (through the bending-moment components along the diametral and circumferential sections) previously developed by the author is outlined, and the investigation of the state of strain is presented in more detail starting with the differential equations of equilibrium and of the slope of deflection. The plastic bending behavior of a plate under uniform normal

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L 17153-63

ACCESSION NR: AP3006360

pressure over its entire area and of a plate under pressure over the area of a circle with a radius smaller than that of the plate is analyzed, and the limit pressure is determined. The variation of the bending-moment components and the slope of deflection over the radius of the plate are shown in diagrams. A solution is obtained in a closed form for both plates under the condition of constancy of maximal tangential stresses. Orig. art. has: 4 figures and 12 formulas.

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics, AN SSSR)

SUBMITTED: 10May63

DATE ACQ: 27Sep63

ENCL: 00

SUB CODE: AP

NO REF SOV: 001

OTHER: 000

Card 2/2

POLOWSKIY, Y.V. (Moskva)

Steady fluid flow in toroidal pipes. Inzh.zhur. 5 no.1:73-82

1965.

(MIRA 18-4

SOKOLOVSKIY, V.V. (Moscow)

"Limit equilibrium of a loose medium with non-uniform weight"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

L 35412-26 ENT

ACC NR: AP6021994

SOURCE CODE: UR/0120/56/000/003/0035/0040

AUTHOR: Radkevich, I. A.; Tomashchuk, Yu. F.; Smolyankina, T. G.; Sokolovskiy, V. V.

ORG: Institute of Theoretical and Experimental Physics, GKAE, Moscow (Institut teoreticheskoy i eksperimental'noy fiziki GKAE)

TITLE: Spark chambers for slow-particle recording

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 35-40

TOPIC TAGS: spark chamber, nuclear particle, particle counting

ABSTRACT: Frame-type and "pen-box" type spark chambers with an interelectrode gap of 1 cm are described; each type may have thin and thick electrodes. A device for aluminum foil stretching is shown (a sketch), as well as a system for gas filling and gas purification. A 12-gap frame-type chamber had memory times of 300 and 550 nsec for clearing fields of -600 and -400 v, respectively; the efficiency corresponding to the minimum delay was 0.97. Plots of chamber efficiency vs. pulse delay for various clearing voltages are given. "In conclusion, the authors wish to thank A. I. Levkov and S. T. Frankovskiy for their help in measurements and also Yu. I. Oreshkin for his help in building the chambers." Orig. art. has: 8 figures.

[03]

SUB CODE: 18 / SUBM DATE: 20May65 / ORIG REF: 006 / OTH REF: 004/ ATD PRESS: 5039

Card 1/1 HLP

UDC: 539.1.073

ACC NR: AP7007076

SOURCE CODE: UR/0048/66/030/010/1577-1580

AUTHOR: Denisov, Ye. V.; Dedenko, L. G.; Dubrovina, S. A.; Kotelnikov, K. A.;  
Morozov, A. Ye.; Ogurtsov, O. F.; Sokolovskiy, V. V.; Slavatskiy, S. A.;  
Fetisov, I. N.

ORG: Physics Institute im. P. P. Lebedev, AN SSSR (Fizicheskii institut  
AN SSSR)

TITLE: Nuclear cascade process in an ionization calorimeter [Paper  
presented at the All-Union Conference on Cosmic radiation physics, Moscow,  
15-20 Nov 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966,  
1577-1580

TOPIC TAGS: pi meson, calorimeter, proton

SUB CODE: 20

ABSTRACT: Results of the calculation of the nuclear cascade process in an iron  
absorber were correlated with experimental data obtained on the ionization ca-  
lorimeter of the Tyan'-Shan' Cosmic Ray Station. It was established that at  
 $E_0 = 300$  Bev approximately 30% of the energy spent being carried away by  
strongly ionizing particles ("black tracks"), and the rest by protons with an  
energy of  $\sim 150$  Mev ("grey tracks"). Errors in the measurement of  $E_0 = 200$   
Bev associated with fluctuations in the recording of strongly ionizing parti-  
cles amounted to  $\sim 12\%$  ( $\sim 11\%$  for "black tracks" and  $\sim 4\%$  for "grey  
tracks"). In measurements by means of an ionization calorimeter of the energy  
transmitted to  $\pi^0$  mesons, ionization produced by particles originating from  
nuclear splitting must be considered. The authors thank N. A. Dobrotin and V. S.

Murzin for valuable critical observations, V. G. Ignat'yevaya, Z. G. Yereiminaya,

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ACC NR: AP7007076

L. V. Shibayeva and N. S. Kochurkinaya for processing the experimental data. Orig. art. has: 2 figures, 2 formulas and 1 table. [JPRS: 39,658]

Card 2/2

VASILEVSKIY. S.S. [Vasylevs'kyi, S.S.]; SOKOLOVSKIY, V.Yu. [Sokolovs'kyi, V.IU.]

Proposals of efficiency promoters of the Roza Luksemburg Knit-Goods Factory in Kiev. Leh.prom. no.1:85-88 Ja-Mr 62.  
(Kiev--Knit-goods industry--Technological innovations) (MIRA 15:9)

SOKOLOVSKIY, V. Yu. [Sokolovs'kyi, V.IU.]

Proposals of the efficiency promoters of the "R.Liuksemburg"  
Knit Goods Factory in Kiev. Leh. prom. no.4:56-59 O-D '64  
(MIRA 18:1)

SOKOLOVSKIY, Ya.B., inzh.

Magnetic treatment of water for boilers. Vod.i san.tekh. no.2:11  
F '63. (MIRA 16:2)

(Feed-water purification)

SOKOLOVSKIY, Ya.S., inzh.

Standard designs for boiler rooms with cast-iron sectional boilers  
for solid fuel. Vol. 1 san. tekhn.no. 5:21-29 '67. (MIRA 17:9)

SONCLOVSKIY, Ya.B., inzh.

Concerning the installation of safety valves in steam boilers  
with pressure no greater than  $0.7 \text{ kg/cm}^2$ . Vod. i san. tekhn.  
no.6:38-39 Ja '64 (MIRA 18:1)

18.1142

67284

SOV/180-59-4-16/48

AUTHORS: Dovgalevskiy, Ya.M. and Sokolovskiy, Ye.I. (Saratov)

TITLE: Properties and Treatment of Alnico<sup>6</sup> Type Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 4, pp 99-105 (USSR)

ABSTRACT: The influence of various alloying additions and thermal treatments on the mechanical and magnetic properties and structures of alloy ANKO3<sup>6</sup> (iron-nickel-aluminium-cobalt) was studied. The addition of sulphur refines the grain of the alloy somewhat and 0.9% Ti is a very good grain refiner. The microstructure of ANKO3 is shown in Fig 1. With the addition of 0.3% S (Fig 2), the second phase disappears and only sulphur inclusions are present in the structure. 0.9% Ti (Fig 3) results in a fine grained structure with a light coloured constituent. The alloy with 1.7% Ti (Fig 4) contains hard and brittle inclusions. Fig 5 shows an alloy containing 0.3% S and 0.9% Ti. There is a light coloured acicular constituent. Fig 6 shows the strength of various alloys. Sulphur increases the strength. Alloys containing 0.9% Ti (Nr 6) and 0.9% Ti + 0.3% S (Nr 5) are also strong. An alloy containing Nb (Nr 7) and Nb + S (Nr 11) have good properties. Additions of Ta and Pb are unfavourable. An

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67284

SOV/180-59-4-16/48

Properties and Treatment of Alnico Type Alloys

alloy containing Be (Nr 12) is good. Fig 6 and 7 show that a quench treatment increases the strength of these alloys. Tempering leads to a further increase. The optimum strength and the optimum magnetic properties are shown by alloys containing 0.9% Ti (Fig 8) and 0.3% S (Fig 9). On the basis of the above investigations a new alloy has been developed containing 18% Co, 10% Al, 19% Ni, 2% Cu, 0.9% Ti, 0.3% S. It has similar magnetic properties to ANKO3 but higher strength. This alloy has gone into production. There are 10 figures, 1 table and 2 references, 1 of which is Soviet and 1 English.

SUBMITTED: April 1, 1959

Card 2/2



SOKOLOVSKIY, Ye. V.

Cand Tech Sci - (diss) "Study of condition and technico-economic indices of rural 6-19 kv networks." Moscow, 1961. 12 pp; (Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev); 200 copies; price not given; (KL, 5-61 sup, 193)

SOKOLOVSKIY, Ye.V., inzh.

Distribution of energy and power losses in sections of rural 6 to  
10 kv. electric power distribution networks. Energetik 9 no.3:  
32-35 Mr '61. (MIRA 14:7)  
(Electricity in agriculture)

SOV/137-57-10-19522

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 154 (USSR)

AUTHOR: Sokolovskiy, Ye.Ye.

TITLE: Employment of Peat Semicoke in Forge-welding Operations  
(Primeneniye torfyanogo polukoksa v kuznechno-svarochnom  
proizvodstve)

PERIODICAL: Tr. Ukr. n.-i. inta nestn. i toplivn. prom-sti, 1956, Nr 11,  
pp 29-51

ABSTRACT: Coke and peat semicoke (PSC) may be employed as fuels to achieve maximum temperatures (1000-1400°C) required for heating of steel during forging and forge-welding operations. Low-land PSC with a high content of ash may completely replace such fuels as hard-coal coke, charcoal, etc. The quality of welds obtained with PSC is comparable to welds produced with other types of fuel. The PSC is successfully employed for brazing of medical equipment and produces high-quality connections possessing greater strength than that of the parent metal. One drawback of the system described is the formation

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SOV/137-57-10-19522

Employment of Peat Semicoke in Forge-welding Operations

of a slag film on the surface of components being heated; however, the film is readily removed by mechanical means. Since the size of PSC particles is not critical in forging operations, the crumbling of the PSC during transportation does not impair its usefulness in forging and welding operations. Sanitary conditions during operations employing SPC are not only comparable to those prevailing during operations involving other types of fuel but are even somewhat more favorable.

G.K.

Card 2/2

SOKOLOVSKIY, Ye.Ye., inzh.

Effectiveness of burning machine peat and briquets in heating  
furnaces. Torf.prom. 38 no.1:13-16 '61. (MIRA 14:2)

1. Nauchno-issledovatel'skiy institut Mestoprom USSR.  
(Peat) (Fuel)

SOKOLOVSKIY, Ye.Ye., inzh.

Burning of solid fuel in heating furnaces. Trudy NIIMesttopproma  
no.17:118-134 '62. (MIRA 16:5)  
(Furnaces, Heating) (Fuel--Testing)

ANDREYEV, N.; SOKOLOVSKIY, Yu.; CHIRKOVSKIY, A.

Develop general-purpose automotive transportation. Avt.transp. 33  
no.2:4-5 F '55. (MIRA 8:5)

1. Glavnyy inzhener avtotransportnoy kontory tresta "Sakhalinrybstroy"  
(for Chirkovskiy). 2. Nachal'nik avtootdela oblastnogo upravleniya  
avtotransporta (for Andreyev). 3. Nachal'nik avtootdela kombinata  
"Sakhalinugol'" (for Sokolovskiy).  
(Transportation, Automotive)

SOKOLOVSKIY, Yu.A.

Shortcomings in the planning and the actual norms for geological-prospecting. Razved. i okh. nedr. 30 no.6:37-40 Ag '64. (MIRA 17:10)

1. Severo-Vostochnoye geologicheskoye upravleniye.



SOKOLOVSKIY, Yu.I. (Khar'kov)

High-speed program-controlled calculating machines. Fiz. v  
shkole 17 no.1:6-22 Ja-F '57. (MLRA 10:2)

(Electronic calculating machines)

PHASE I BOOK EXPLOITATION

SOV/4833

Sokolovskiy, Yuriy Iosifovich

Kibernetika nastoyashchego i budushchego; o "razumnykh" mashinakh, iskusstvennykh organakh chuvstv, avtomaticheskoy perevode knig, matematicheskoy logike i fiziologii nervnoy deyatel'nosti (Cybernetics of the Present and of the Future; On "Intelligent" Machines, Artificial Organs of Sense, Automatic Book Translation, Mathematical Logic, and Physiology of Nervous Activity) [Khar'kov] Khar'kovskoye knizhnoye izd-vo, 1959. 190 p. 36,000 copies printed.

Ed.: R.Ya. Kal'nitskiy; Tech. Ed.: M.G. Shevchenko.

PURPOSE: This book is intended for the general reader.

COVERAGE: The author discusses information and its measurement, automation, electronic computers, translating and chess-playing machines, future possibilities of cybernetics, and the interrelation between cybernetics and physiology. Attention is given to logic, generalization, specialization, binary numeration, the "golden rule" of the theory of information, interference suppression, automatic control, simulation, construction and use of computers, programming, machine translating, "electronic brain," and measuring, storing, and transmitting information. The BESM electronic computer of the Institut tochnoy mekhaniki i

Card 1/4

Cybernetics of the Present (Cont.)

SOV/4833

vychislitel'noy tekhniki (Institute of Precision Mechanics and Computing Engineering) of the Academy of Sciences USSR is described. No personalities are mentioned. References appear in the section entitled, "What to Read on Cybernetics."

TABLE OF CONTENTS:

Foreword	3
Ch. 1. What is Cybernetics?	5
Is thought fast enough? What will the weather be tomorrow? Mathematics and logic. A new science is needed. Specialization and generalization. Energy and power engineering. Information and cybernetics. On strong and weak currents. Information in various forms. Soul and wax. Subject and method of cybernetics.	
Ch. 2. How is Information Measured?	24
Qualitative variety of communicated information. How on earth should information be measured? Breaking down a nonstandard question. Measuring information in complicated cases. Statistical answers. The measure of indefiniteness is entropy.	
Card 2/4	

PHASE I BOOK EXPLOITATION SOV/4595

Sokolovskiy, Yuriy Iosifovich, Docent, and Vasilii Ivanovich  
Shilov, Engineer

Fotonnyy zvezdolet; o vozmozhnostyakh i trudnostyakh poleta za  
predely Solnechnoy sistemy (Photon Space Ship; Possibilities  
and Difficulties of Flights Beyond the Solar System) Khar'kov,  
Izd-vo Khar'kovskogo gos. univ. im. A. M. Gor'kogo, 1960. 47 p.  
100,000 copies printed.

Resp. Ed.: V. I. Khristenko, Candidate of Technical Sciences;  
Ed.: A. S. Nesterenko; Tech. Ed.: A. S. Trofimenko.

PURPOSE: This popular science booklet is intended for the general  
reader.

COVERAGE: The booklet describes the physical principles which would  
govern the operation of a future photon space ship. The weight,  
pressure, and reaction of light, antimatter, and laws of the  
theory of relativity are discussed. The foreword is written by  
N. P. Selivanov, Candidate of Physics and Mathematics. There  
are 26 references: 24 Soviet (including 1 translation), and

Card 1/3

Photon Space Ship (Cont.)

SOV/4595

2 German.

TABLE OF CONTENTS:

Foreword	5
From the First Space Rocket to the Photon Space Ship	7
The start of the cosmic era. Beyond Uranus is "Trans-Uranus".	
Struggle for speed. Weighing machine and light. Jet and ray. Atomic "twins". "Worlds" and "antiworlds". Light instead of ashes and smoke. Where is antimatter gotten?	
The Future Photon Space Ship	23
Photon motor. Storage of antimatter. Food problem. Living quarters. Communication with the Earth. Space ship landing and take off. Competitors of photon rockets	
Special Features of Space Travels	33
Future routes. Landscape without parallel. Vexatious limitation. Speed effects. Timepieces and speed.	

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PHASE I BOOK EXPLOITATION

SOV/5024

Sokolovskiy, Yuriy Iosifovich

Teoriya otnositel'nosti v elementarnom izlozhenii (A Simple Exposition of the Theory of Relativity) Khar'kov, Izd-vo Khar'kovskogo univ., 1960. 173 p. 15,000 copies printed.

Resp. Ed.: I. M. Lifshits, Corresponding Member, Academy of Sciences USSR; Ed.: T. M. Kurilova; Tech. Ed.: A. S. Trofimenko.

**PURPOSE:** This book is intended for students, teachers, engineers, lecturers, and for the general reader without special training interested in the theory of relativity in connection with problems of astronautics, nuclear physics, and present-day radio communications technique.

**COVERAGE:** The book explains the special theory of relativity in a clear and elementary manner so as to permit the non-specialist to understand basic concepts and conclusions.

Card 1/6

A Simple Exposition (Cont.)

SOV/5024

The physical basis of the theory, its principal formulas, laws and applications are discussed in sufficient detail and in simple language but without vulgarization. The book gives much attention to explaining paradoxes and to such often-posed questions as: "Is it possible to grow younger on the way?" [i.e., in the course of a cosmic flight], "Is it possible to fly into the future?", "Is there a straight line shorter than a curved one?", "Is the effect before the cause possible?", "Is movement faster than that of light conceivable?" The supplements resort to higher mathematics in the detailed discussion of certain problems, particularly those connected with the flight of a photon rocket. The author does not deal with the general theory of relativity (Einstein's theory of gravitation), but only with the "particular" or "special" theory of relativity. The section entitled "Four-dimensional vector of energy and impulse" was added to the text at the suggestion of Professor I. M. Lifshits, Corresponding Member AS USSR. This section gives some notion of

Card-2/6

A Simple Exposition (Cont.)

SOV/5024

the direct connection between the basic laws of dynamics of the theory of relativity and the relativistic nature of the space-time multiformity. There are 18 Soviet references, including 5 translations.

TABLE OF CONTENTS:

Preface	3
Ch. I. Origins of the Theory of Relativity	6
1. Systems of reference	6
2. Galilei's principle of relativity	11
3. Are the laws of optics invariable?	14
4. The Doppler effect	17
5. Electrodynamic forces and the inconstancy of mass	21
6. On the eve of Einstein's discovery	25
Ch. II. Relativistic Principle of Simultaneity	
7. How to reconcile the irreconcilable	30

Card 3/6.



SOKOLOVSKIY, Yuriy Iosifovich [Sokolovs'kyi, IU.I.], dotsent, kand. ped. nauk; YUSHCHENKO, K.L., kand. fiziko-mat. nauk, otv. red.; STA-ROSTENKO, T.M., red.; MATVIICHUK, O.A., tekhn. red.

[How machines calculate, translate books, and play chess] Iak mashyny obchysliuiut', perekladaiut' knyhy i hraiut' u shakhy. Kyiv, 1961. 44 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser.6, no.8) (MIRA 14:9)  
(Electronic calculating machines) (Translating machines)

SOKOLOVSKIY, Yu. [Sokolovs'kyi, IU.], dotsent, kand.pedagog.nauk

Interesting facts about electricity. Znan. ta pratsia no.5:31 My '61.

(MIRA 14:5)

(Electricity)

SOKOLOVSKIY, Yu. [Sokolovs'kiy, IU.], dotsent, kand.pedagog.nauk

Interesting facts on electricity. Znan. ta pratsia no.7:  
30-31 J1 '61. (MIRA 14:8)

(Electricity)

SOKOLOVSKIY, Yu. [Sokolovs'kiy, IU.], dotsent, kand.pedagog.nauk

Interesting facts about electricity. Znan.ta pratsia no.9:25  
S '61. (MIRA 14:8)

(Electricity)

SOKOLOVSKIY, Yuriy Iosifovich; GALANIN, D.D., red.; SHAPOSHNIKOVA,  
A.A., red.; LEVINA, A.B., red.; TARASOVA, V.V., tekhn. red.

[The concept of work and the law of conservation of energy;  
a scientific methodological analysis with a historical review]  
Poniatie raboty i zakon sokhraneniia energii; nauchno-  
metodicheskii analiz s istoricheskim ocherkom . Pod red. i s  
predisl. D.D.Galanina. Moskva, Izd-vo Akad. pedagog. nauk  
RSFSR, 1962. 339 p. (MIRA 15:11)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR  
(for Galanin).

(Force and energy)

SOKOLOVSKIY, Yu.I., sotsent (Khar'kov)

Elementary exposition of the fundamentals of the restricted theory  
of relativity. Fiz. v shkole 22 no.3:96-106 My-Je '62.

(MIRA 15:7)

(Relativity (Physics)--Study and teaching)

SOKOLOVSKIY, Yu., dotsent

Next to the light. Znan.-sila 37 no.9:8-11 S '62. (MIRA 15:12)  
(Relativity (Physics))

SOKOLOVSKIY, Yuriy Iosifovich, kand. pedagog. nauk, dots.; FAYNBOYM,  
I.B., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Surprising facts about velocities near to that of light;  
dialogues on the relativity theory] Siurprizy okolosvetovykh  
skorostei; dialog o teorii otnositel'nosti. Moskva, Izd-vo  
"Znanie," 1963. 22 p. (Novoe v zhizni, nauke, tekhnike.  
IX Seriya: Fizika i khimiya, no.10) (MIRA 16:6)  
(Relativity (Physics)) (Light—Speed)



SOKOLOVSKIY, Yu. [Sokolovs'kiy, IU.], dotsent

Mass and energy. Nauka i zhyttia 12 no.12:46-47 D '62.  
(MIRA 16:8)

SOLOV'YEV, Yuriy Iosifovich; RUNER, Ya.B., retsenzent,  
MUL'NITSKIY, V.V., retsenzent; MIKHAIKEVICH, P.V., red.

[Elements of the theory of relativity with graphic proofs]  
Nachala teorii otноситel'nosti s graficheskimi dokazatel's-  
tvami. Moskva, Fizveshchenie, 1964. 146 p.

(Mia- 18:3)

SOKOLOVSKIY, Yuriy Iosifovich; KOZLOV, V.D., red.

[Theory of relativity in an elementary explanation]  
Teoriia otноситel'nosti v elementarnom izlozhenii. Izd.2.  
perer. Moskva, Izd-vo "Nauka," 1964. 197 p.  
(MIRA 17:6)

СОВЕТОВСКИЙ, Ю.И.

Problems of reliability in designing radical electronic  
equipment. Trudy VNIIMIO no.3:22-31 '63 (MIRA 18:2)

SOKOLOVSKIY, Yu.P.

Evaluation of the safety of medical electronic equipment by  
reverse functional failure. Nov. med. tekhn. no.2:141-154 '64.  
(MIRA 18:11)

DEBILITATION, YULIA; "MIRA", 1964.

Polarization during the anodic dissolution of metallic cerium in a fused eutectic mixture of lithium and potassium chlorides. Trudy Inst. elektrokhim. UFAN SSSR no.5:17-31 1964.

Interaction of trivalent cerium ions with fluoride anions in a medium of a fused LiCl - KCl eutectic. Ibid.:33-40

Electrode processes in the electrolysis of cerium in chloride-fluoride melts. Ibid.:47-51

(MIRA 1964)

SKALOV, M.V.; POGODOVSKIY, Yul.; KILASHOV, Yu.A.

Equilibrium between cerium and its bi- and trivalent ions in a  
fused eutectic mixture of lithium and potassium chlorides. Trudy  
Inst. elektrokhim. UFAN SSSR no.5:7-16 '64.

(MIRA 18:2)

SOZLOVNIK, Yr.S.; SEMENOV, M.V.; SKIBA, O.V.

Coefficients of diffusion of trivalent cerium in fused salt mixtures  $\text{LiCl} - \text{KCl}$  and  $\text{LiCl} - \text{KCl} + \text{LiF}$ . Trudy Inst. elektrokhim. UFAN SSSR no.5.41-45 '64.

(MIRA 18:2)



SOKOLOVSKIY, Yuriy Yefimovich; YASTRZHEMSKIY, L.A., retsenzents; ROMANOV, V.G.,  
retsentsent; KUZOVLEVA, T.V., red. izd-va; YERMAKOVA, T.T., tekhn.  
red.

[Along the blue roads of Moscow and its environs guidebook] Po go-  
lubym dorogam Moskvy i Podmoskov'ia; putevoditel'. Moskva, Izd-vo  
"Rechnoi transport," 1961. 166 p. (MIRA 14:8)  
(Moscow Valley—Guidebooks)  
(Moscow Valley—Inland water transportation)

SOBOTOVICH, Ivan Dmitriyevich; SOBOTOVICH, Yevdokiya Pavlovna;  
SOKOLOVSKIY, Yu.Ye., retsenzent; IVSHIN, Ye.A., retsenzent;  
TYUKAVIN, I.N., red. izd-va; BODROVA, V.A., tekhn. red.

[Along the Moscow Canal] Po kanalu imeni Moskvyy. Moskva, Izd-  
vo "Rechnoi transport," 1962. 123 p. (MIRA 15:5)  
(Moscow Canal region--Guidebooks)

KOZICKA-NOWAKOWA, E.; SOKOLOWA, J.

The effect of the comfrey mowing date upon the yields of green mass and its alimental constituents. Roczn. nauk roln. rosl 82 no.4:1041-1045 '61.

1. Stacja Hodowlano-Badawcza, Instytut Hodowli i Aklimatyzacji Roslin, Grodkowice i Katedra Zywienia Zwierzat, Wyzsza Szkola Rolnicza, Krakow.

MALACHOWSKA, I.; SOKOLOWSKA, A.; SZYMANOWSKA, H.

Method of therapy of infant diarrheas with associated aureo-  
mycin and antistine and effect of the therapy on bacterial flora.  
Med. dosw. mikrob. 5 no.3:374-375 1953. (GLML 25:5)

1. Warsaw.

MALACHOWSKA, I., KANARUSOWA, I. LEWENFISZ-WOJNAROSKA, T. SOKOLOWSKA, A.

Role of bacterium coli alpha & beta type in etiology of infantile diarrhea. *Pediat. polska* 30 no.3:211-216 Mr '55.

1. Państwowego Zakładu Higieny w Warszawie. Dyrektor: prof. dr med. F. Przemycki, Z I Kliniki Chorob Dziecięcych, A.M. w Warszawie, Kierownik: prof. dr Med. R. Baranski; i z II Kliniki Chorob Dziecięcych A.M. w Warszawie, Kierownik: prof. dr med. M. Michalowicz, Warszawa, Chocimska 24, P.Z.H.

(DIARRHEA, bacteriology

E. Coli, serol type alpha & beta etiol. role in inf.)

(ESCHERICHIA COLI, infections

diarrhea, etiol. role of serol. type alpha & beta, in inf.)

POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khin., No 2, 1959, 4656.

Author : Czerwinska-Fejgin, E., Polaczkowa, W., and  
Sokolowska, A.

Inst : \_\_\_\_\_  
Title : On 3,4,5-Triphenylaniline.

Orig Pub: Roczniki Chem, 32, No 2, 265-270 (1958) (in Polish with  
English and Russian Summaries)

Title : The rearrangement of the oxime of 3,4,5-triphenyl-  
cyclohexene-2-one (I, Ia oxime) under the action  
of  $(\text{CH}_3\text{CO})_2\text{O}$  (II) and of  $\text{CH}_3\text{CCl}$  (III) in the  
presence of pyridine has been used in the synthe-  
sis of 3,4,5- $(\text{C}_6\text{H}_5)_3\text{C}_6\text{H}_2\text{NH-COCH}_3$  (IV). The hydro-  
lysis of IV gives 3,4,5- $(\text{C}_6\text{H}_5)_3\text{C}_6\text{H}_2\text{NH}_2$  (V). The

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POLAND/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khin., No 2, 1959, 4656.

3 hrs (yield 80%). IV is prepared by refluxing 0.075 mol Ia, 0.5 mol II, and 0.1 mol pyridine until dissolution is complete ( $\sim 30$  min) followed by the gradual addition of 0.32 mol III while the reaction mixture is cooling, after which the solution is refluxed for an additional hr, the solidifying formed on cooling is decomposed with 50 ml water and made alkaline with  $\text{NH}_4\text{OH}$  while cooling with ice; the yield is 70%, mp  $213-214^\circ$  (from alc). 0.04 mol IV and 0.24 mol KOH in 150 ml alcohol are refluxed for 3.5 hrs, giving 64.3% V, mp  $160.5-162^\circ$  (from alc); hydrochloride mp  $211-213^\circ$ , picrate mp  $207-210^\circ$  (decomp; from alc), benzoyl derivative mp  $191-192.5^\circ$  (from petroleum ether). 6 mmols V in 24 ml glacial

Card : 3/4

Distr: 4E2c(j)/4E3d/4E2a(c)/4E3c 2 cys

19  
Reactions of neutron-activated arsenic atoms in organic media. I. Formation of phenyl arsenic compounds during neutron irradiation of arsenic trichloride in benzene. K. E. Siekierska, A. Sokolowska, and I. G. Campbell (Inst. Nuclear Research, Warsaw). *J. Inorg. & Nuclear Chem.* 12, 18-29 (1959).—Di- and monophenyl As compds. are produced. Phenyl radicals may form from collision of high-kinetic-energy As atoms with  $C_6H_6$ , or  $C_6H_5$  may become activated by neutralizing positively charged As from a  $n, \gamma$  reaction. This differs from billiard-ball collision in  $(C_6H_5)_2$ -As irradiation.  
Jack J. Ballou

6  
1-94(WB)  
5



SOKOLOWSKA, Alicja

Application of reversed-phase partition chromatography to the separation of n-hexyliodide from iodobenzene and n-propyliodide. Nukleonika 8 no.5:341-343 '63.

1. Department of Radiochemistry, Institute of Nuclear Research, Warsaw 9.

L 41809-56 WT(j) RI  
ACC NR: AP6031693 (N) SOURCE CODE: PO/0099/66/040/003/0411/0420

AUTHOR: Hahn, Witold E.; Sokolowska, Alicja

ORG: Department of Organic Chemistry, University, Lodz (Katedra Chemii Organicznej Uniwersytetu)

TITLE: Synthesis of aminoalcohols. VIII. Derivatives of beta-mercapto-alpha-arylhydrazono-propane

SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 411-420

TOPIC TAGS: organic synthetic process, sulfone, sulphinic acid, mercaptan, condensation reaction, formaldehyde

ABSTRACT:  $\beta$ -Arylhydrazono- $\alpha$ -ketosulphides or sulphones have been obtained in the reaction of mercaptanes or sulphinic acids with Mannich bases synthesized from the  $\omega$ -arylhydrazone derivatives of glyoxal. Direct three-component condensation of formaldehyde, CH and SH acidic compounds yielded the same compounds. The sulphides were oxidized to sulfoxides and sulphones. Orig. art. has: 6 figures and 2 tables. [Based on authors' Eng. abst.] [JPRS: 36,002]

SUB CODE: 07 / SUBM DATE: 20Apr65 / ORIG REF: 003 / OTH REF: 016

Card 1/1 af

0919 0393

SOKOLOWSKA, B.

SKRODSKI, Eugeniusz; SOKOLOWSKA, Bozena

Isolation of strain *Listerella monocytogenes* from hare;  
preliminary communication. Bull. State Inst. Marine Trop. M.  
Gdansk Vol.5:88-90 1953.

1. Z Panstwowego Instytutu Medycyny Morskiej i Tropikalnej w  
Gdansk i Panstwowego Instytutu Weterynarii w Pulawach.

(*LISTERIA*,

\**monocytogenes*, isolation from hare)

(*RODENTS*,

\*hare, isolation of *Listeria monocytogenes*)

*SOKOLOWSKA, BOZONNA*

SKRODSKI, Eugeniusz; SOKOLOWSKA, Bozonna

Cases of tularemia in dogs. Bull. State Inst. Marine Trop. M.  
Gdansk Vol.5:91-94 1953.

1. Z Panstwowego Instytutu Medycyny Morskiej i Tropikalnej w  
Gdansk i Panstwowego Instytutu Weterynarii w Pulawach.

(TULAREMIA,  
\*in dogs)

(DOGS, diseases,  
\*tularemia)

SOKOŁOWSKA B.

SZKODZKI, Eugeniusz; LAZYGA, Kazimierz; SOKOŁOWSKA, Bożenna; TWOREK, Romuald

Tularemia in Szczecin Voievodship. V. Infection of cattle with  
tularemia. Przegl. epidem., Warsz. 8 no.3:179-184 1954.

1. Instytut Medycyny Morskiej i Tropikalnej, Państw. Zakł. Higieny,  
Inst. Medycyny Pracy Wsi, Państw. Instytut Weterynaryjny  
(TULAREMIA, epidemiology  
in Poland, infect. in cattle)  
(CATTLE, diseases  
tularemia, epidemiol. in Poland)

SKRODZKI, E.; LAZUGA, K.; SOKOLOWSKA, B.; TWOREK, R.

Investigations on tularemia in cattle. Bull. Inst. Marine  
Trop. M.Gdańsk 6:77-85 1955.

1. Z Państwowego Instytutu Medycyny Morskiej i Tropikalnej w  
Gdańsku Instytutu Medycyny Pracy Wsi w Lublinie, Państwowego  
Instytutu Weterynaryjnego w Puławach, Państwowego Zakładu  
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EXCERPTA MEDICA Sec 11 Vol 12/2 O.R.L. August 59

1513. NEOPLASMS OF THE LACRIMAL SAC - Nowotwory worka łzowego -  
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